MedeaWiz DV-81

High Definition Video Player

User Manual

Repeater FW version 1.435

Preliminary Manual version 0.1

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Introduction

The MedeaWiz DV-81 is a Full High Definition digital video repeater / advertising digital video signage player built with quality components for years of commercial service.

There are two main operational firmware versions available:

The **Repeater Firmware** is pre-installed for use in museums, trade shows and etc. where a simple looping program is needed, or a looping program with push-buttons to select various files is needed. The DV-81 can be used as a stand-alone player or can be connected to a LAN and set to download new files at a pre-set time.

The **Multi Zone RSS Firmware** can be downloaded and installed to have multiple zones consisting of video and still images for uses such as a restaurant menu. Video files may be downloaded from a server on a local network. A companion software GUI that runs on a Windows PC is available free of charge to create and manage the layout compositions.

We can also create custom firmware for your specific requirements. This will generally require a large quantity order or a one-time charge for the engineering.

DV-81 Quick-Start Guide

The MedeaWiz DV-81 ships with the "Repeater" firmware installed. The HDMI output set to Auto Mode, and the PLAYBACK MODE set to MENU MODE. Most users can simply connect their HDMI monitor and install their SD memory card, with files named in the same way as the older model MedeaWiz players.
* For Multi-Zone RSS firmware see bottom of page.

Example 1: You have one file that you need to run in a loop when power is turned on:

> Name the file 000.xxx (where xxx is the proper file extension such as mpg, wma, mp4 or etc.)

Example 2: You have a looping file and also want to use the DV-68K with push buttons or other serial control device:

> Name the looping file 000.xxx as above. Then name the other files in sequence 001.xxx, 002.xxx, 003.xxx, etc.

Make sure you are using ZEROS and not the letter O in the file name, Do not put the files in a folder. Only put media files on the SD card.

You can download HD test files at http://www.highdefforum.com/high-definition-movies-video-clips/6537-official-hd-video-clip-list.html

On-Screen Menu for Setup

Press the "Setup" button on the remote control to enter the on-screen menu. Use the ARROW keys to navigate, the OK key to make a selection, and the left ARROW OR the RETURN key to go back one level. From the main menu, press the RETURN key, then the PLAY/PAUSE key to exit the menu and begin file play.

MENU Mode to use DV-68K, TK-69K push-buttons or other serial control

In Menu mode the player will loop file 000.xxx until it receives a serial command to play a file. After the file ends the player will loop 000.xxx again.

REPEAT Mode

In Repeat mode the player will repeat all files in a loop starting with file 000.xxx until it receives a serial command to play a file. After the file ends the player will resume repeating all files.

RJ 9 Serial Port Control from your PC, AMX, Crestron, or other Micro-processor

For simple file playing, the serial codes are the same as the codes for the DV- 68, 69, and 71. Please see http://www.teamkingsley.com/downloads.html for more detail.

The serial communications is on the RJ 9 (telephone port) at 4800, 8N1 at 5 volt TTL levels. The DV-66K document will show you the pin-out for the 4-4 phone cable for serial communications. If you need to control the DV-81 by a PC, AMX or other true rs-232 (12 volt), you MUST use a level-shifting adaptor cable available separately. The DB9M 9 pin connector is not in use with the standard firmware*.

Send one byte, Decimal 1 (Binary 0000 0001, Hex 01) to play file 001.xxx. Send Decimal 2 (Binary 0000 0010, Hex 02) to play file 002.xxx and etc. Do not send any other bytes such as a line-feed or a carriage return. Send only one byte. Make sure your program is sending the NUMERICAL value, not the ASCII character (CHAR) value. Many programs default to sending ASCII unless you specify otherwise. The number 1 sent in ASCII is actually Decimal 49 and will play file 049.xxx if available.

NOTES:

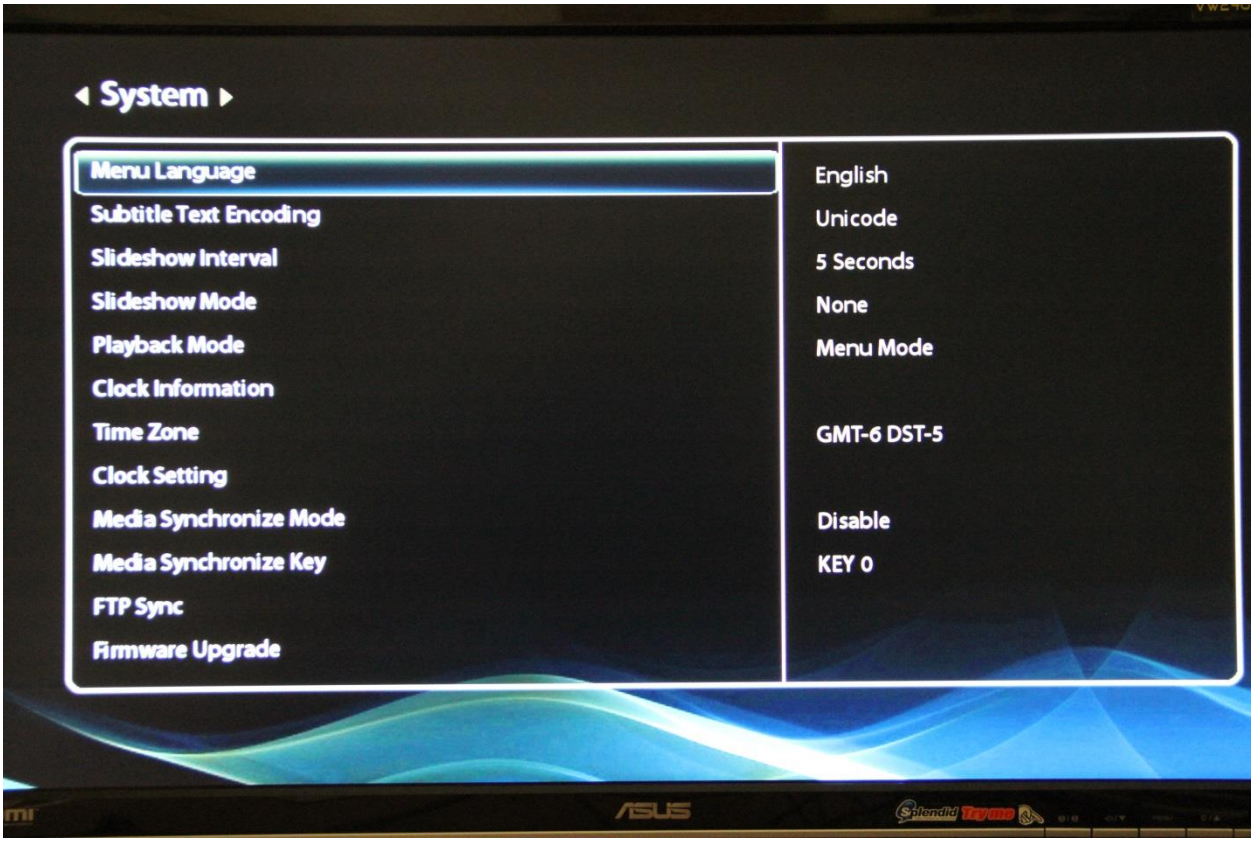
The DV-81 uses a 12 volt DC power supply (included). Use of a wrong power supply will void the warranty.

*Please see the full manuals, firmware and software downloads at http://www.TeamKingsley.com/downloads.html for more details.

On Screen Menu

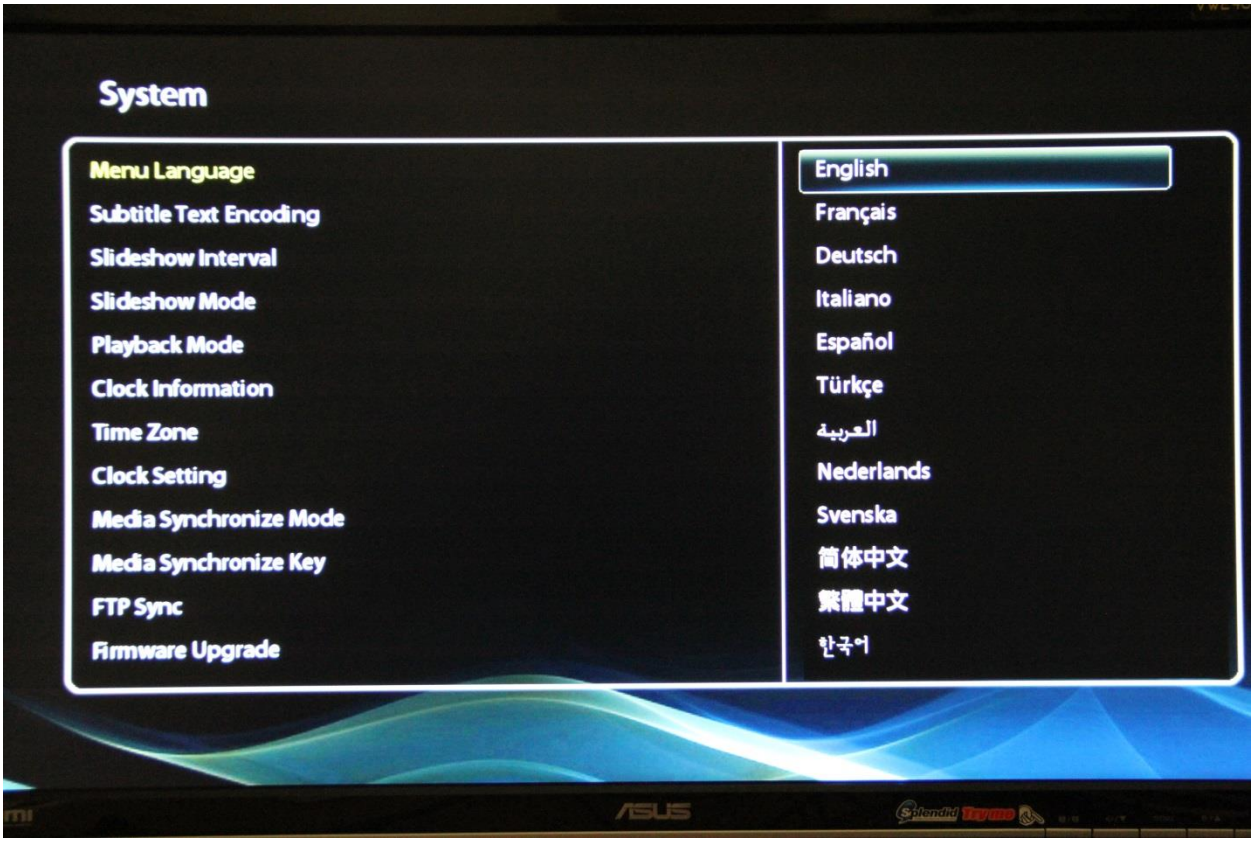
Press the “Setup” button on the remote control to enter the on-screen menu. Use the ARROW keys to navigate, the OK key to make a selection, and the left arrow OR the RETURN key to go back one level. From the main menu press the RETURN key, then the PLAY/PAUSE key to exit the menu and begin file play. Use the Left and Right arrows to reach the 4 main pages, System, Network, Sound and Display.

System Menu Page



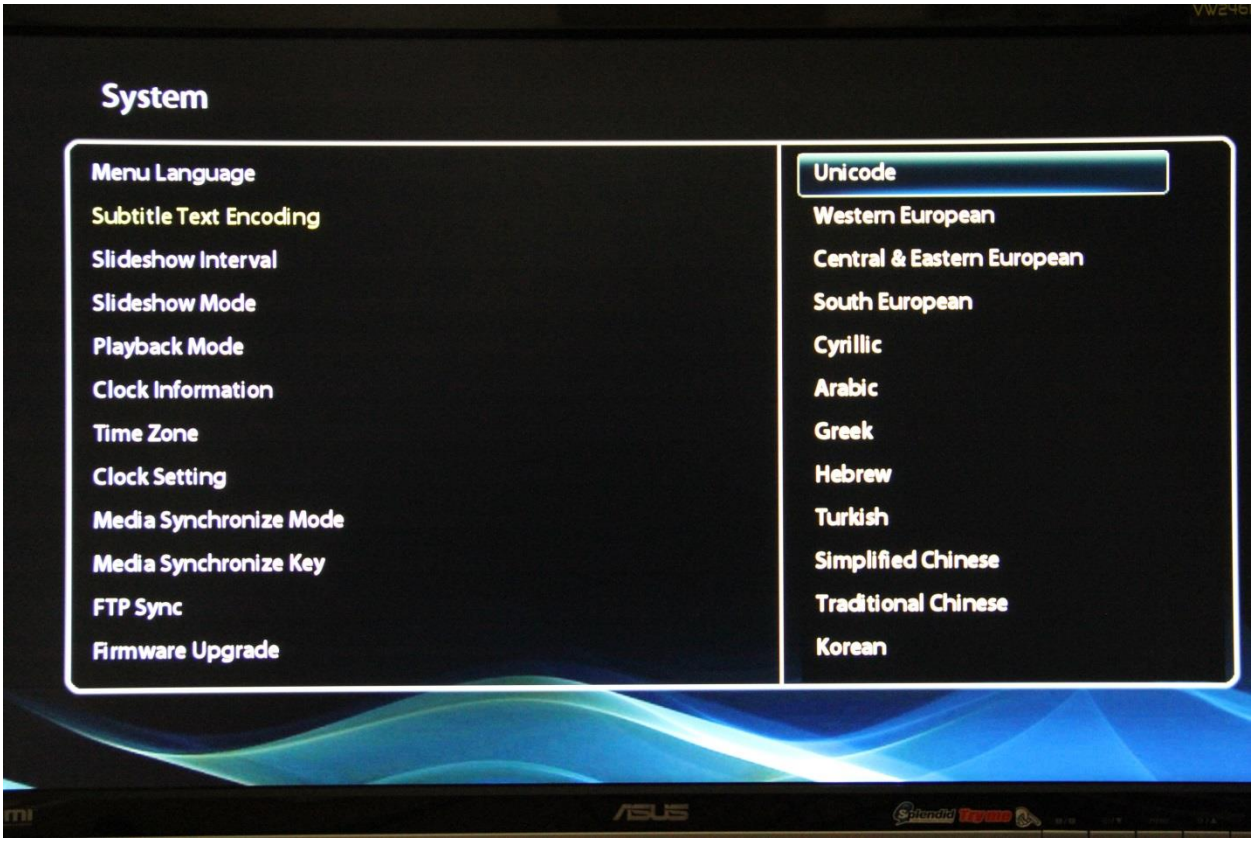
Menu Language

Select the language for the Menu



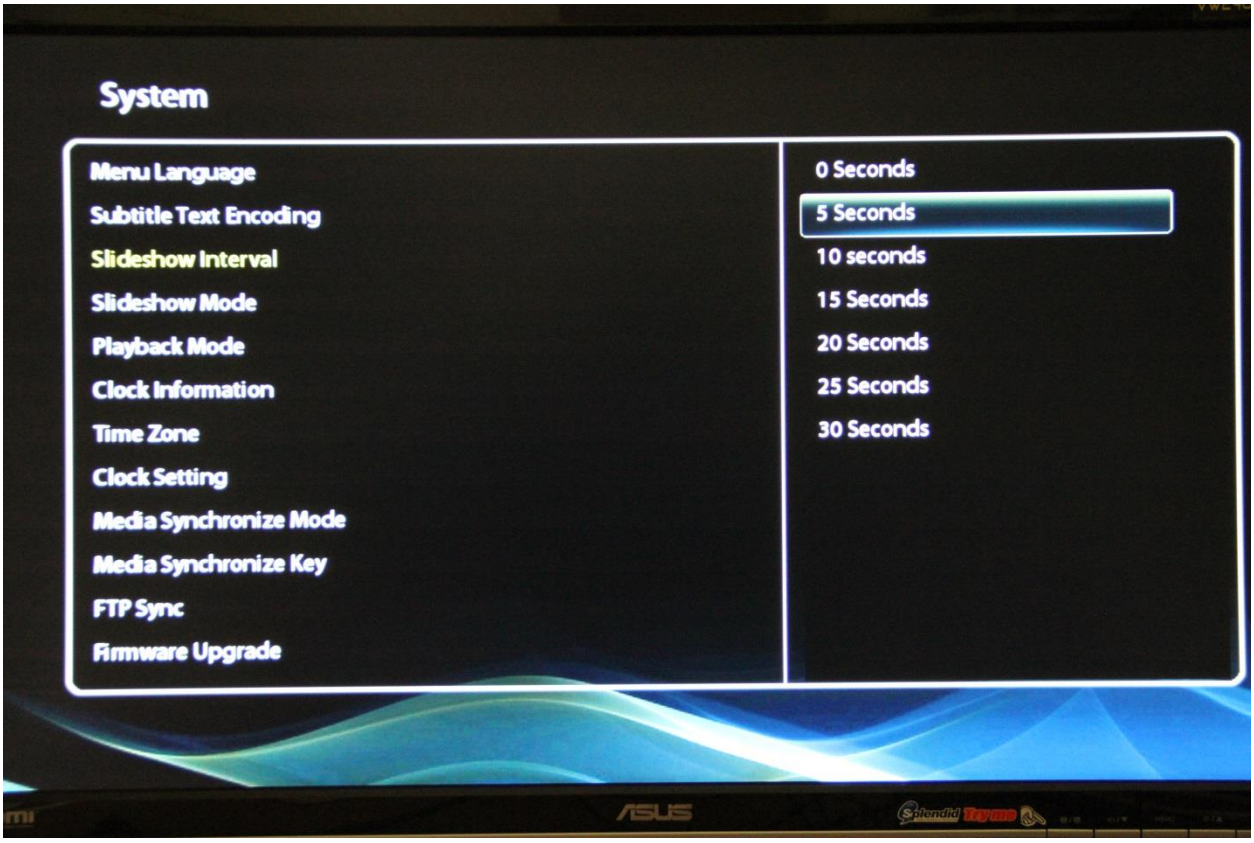
Subtitle Text Encoding

Select the encoding type for the Subtitle



Slideshow Interval

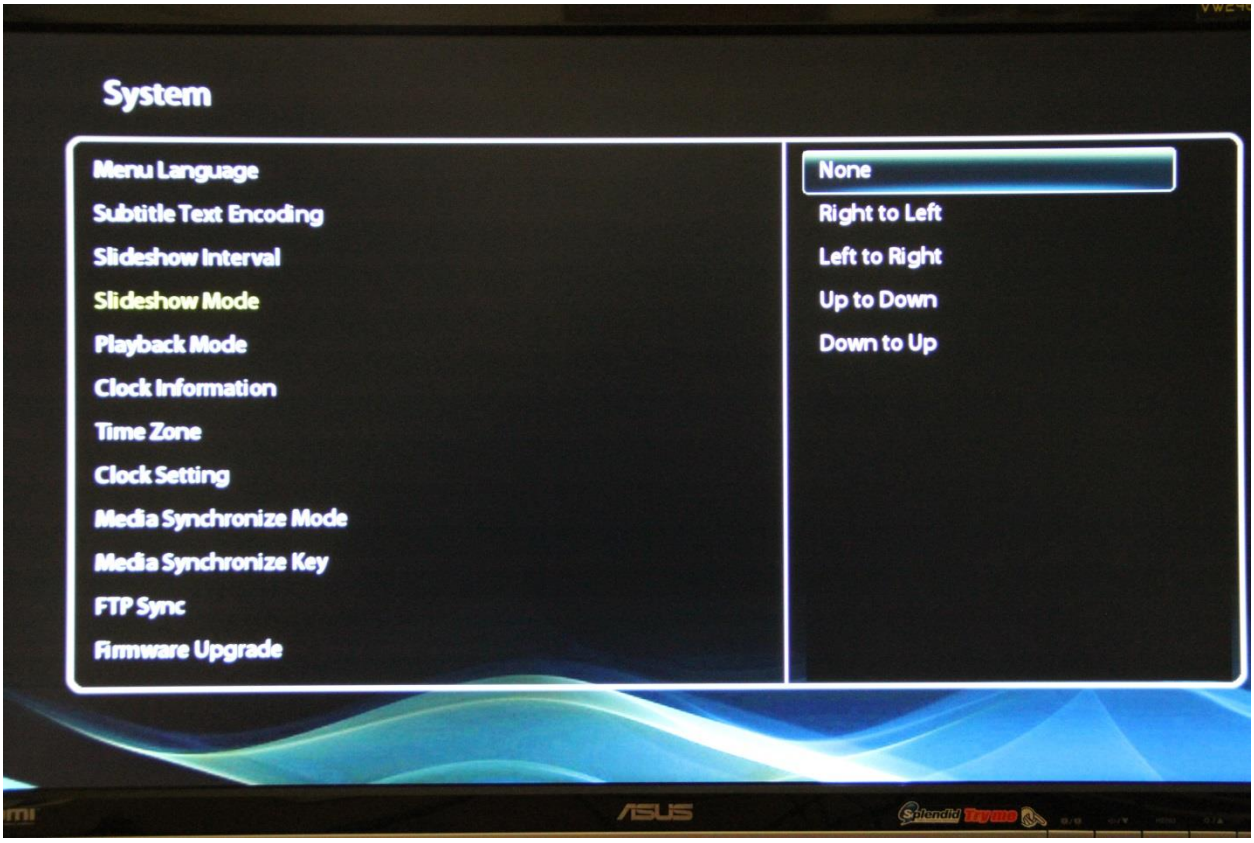
Select the time that still images remain on the screen before advancing



Slideshow settings are only used with still images (picture files) on the SD memory card with the player set to REPEAT playback mode.

Slideshow Mode

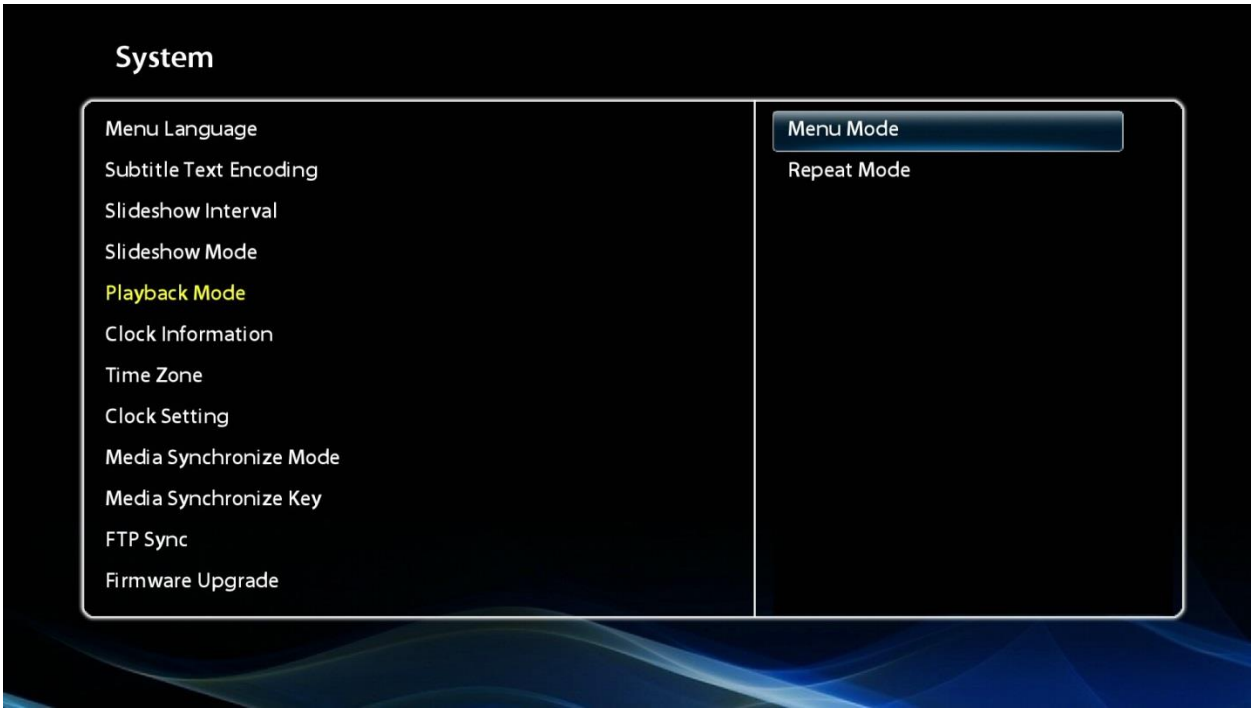
Select the still image transition type



Slideshow settings are only used with still images (picture files) on the SD memory card with the player set to REPEAT playback mode.

Playback Mode

Select the Playback Mode

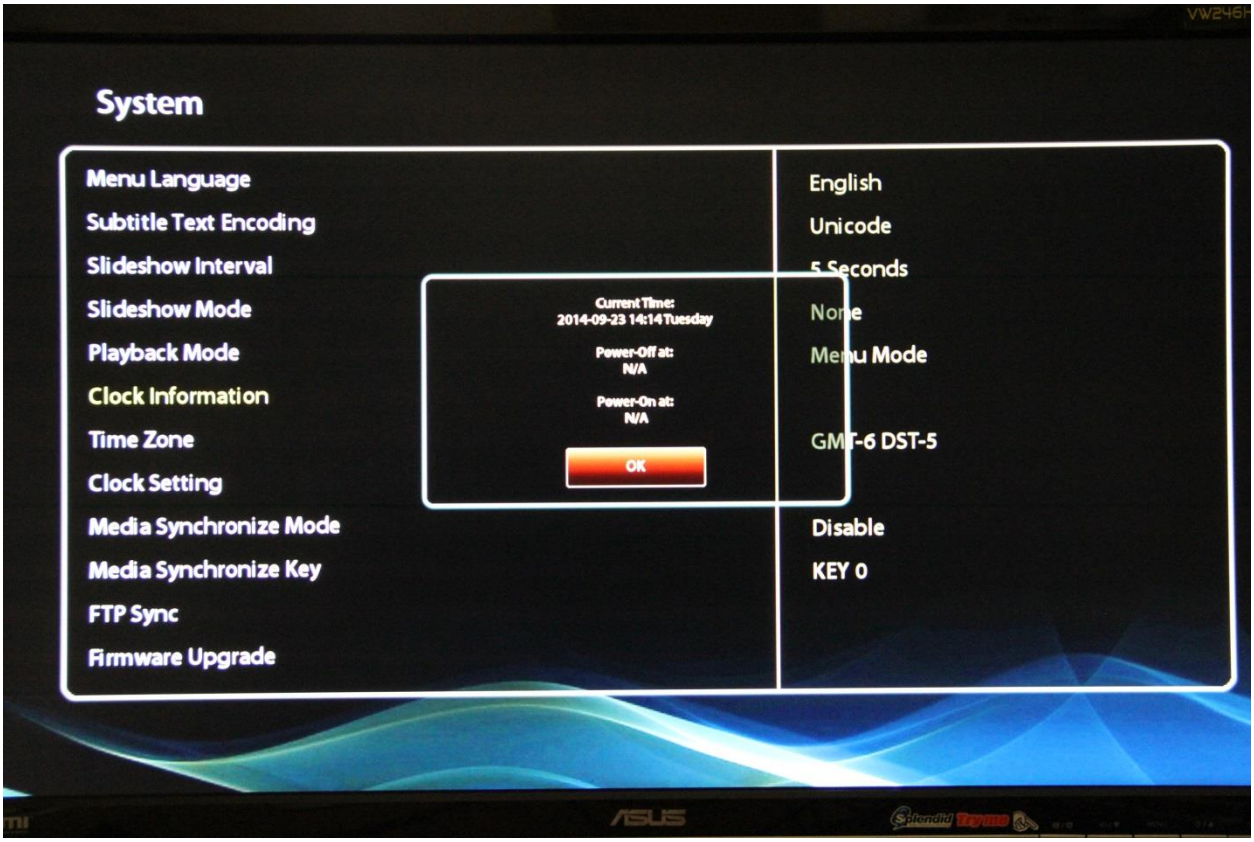


The MENU mode is used when looping a single file, named 000.xxx. Using the DV-68K, TK-69K with push-buttons or other serial control device to trigger files 001.xxx up to 200.xxx, after the selected file plays, the DV-81 will resume looping file 000.xxx. (where .xxx is the proper file extension mpg, wma, mp4, etc.)

The REPEAT mode is used to repeat all files on the memory card in sequence starting at file 000.xxx. Using the DV-68K, TK-69K with push-buttons or other serial control device to trigger files 001.xxx up to 200.xxx, after the selected file plays, the DV-81 will resume repeating all files starting at file 000.xxx.

Clock Information

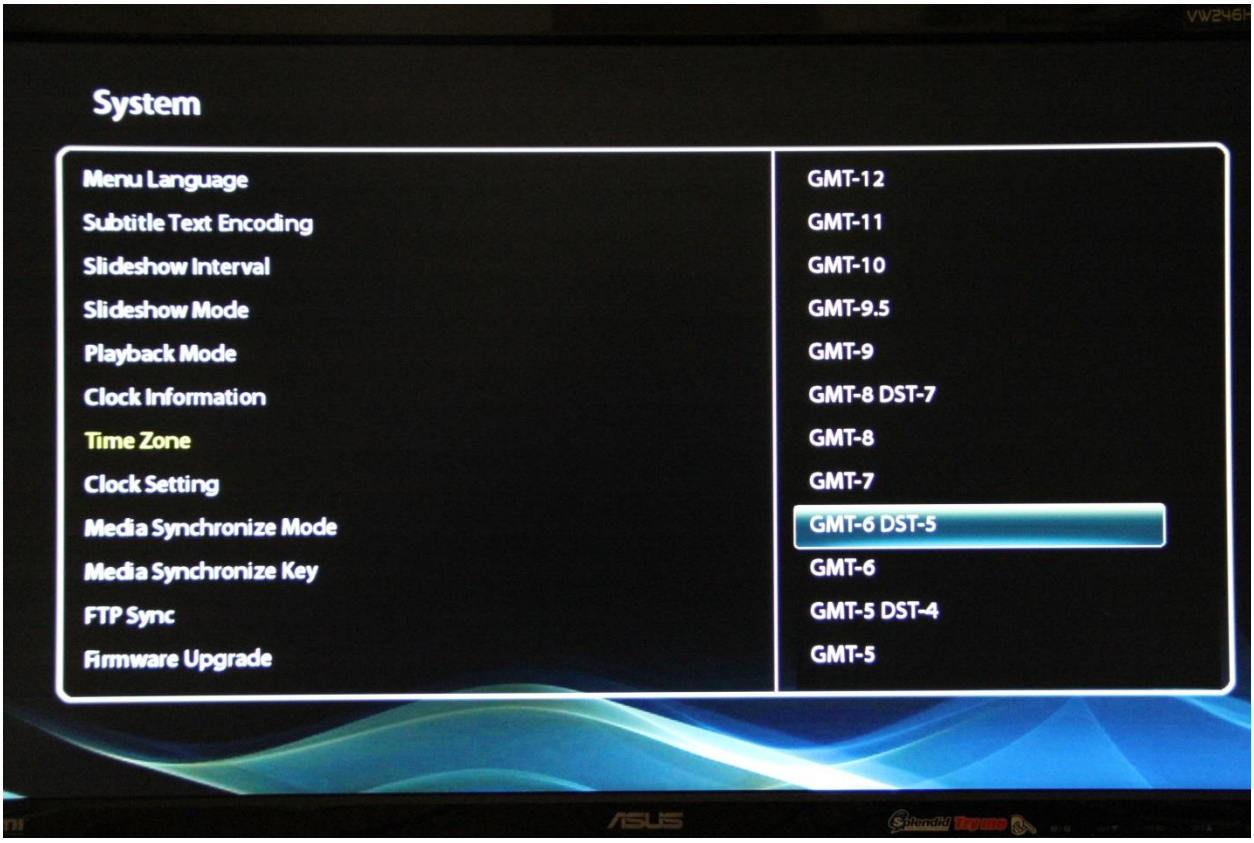
View the current time and date settings



The POWER-OFF and POWER-ON setting is accomplished using the U-Poster 1.1 software on a Windows PC and storing the created file on the SD memory card along with your video files. The software can be downloaded at http://www.teamkingsley.com/downloads.html

Time Zone

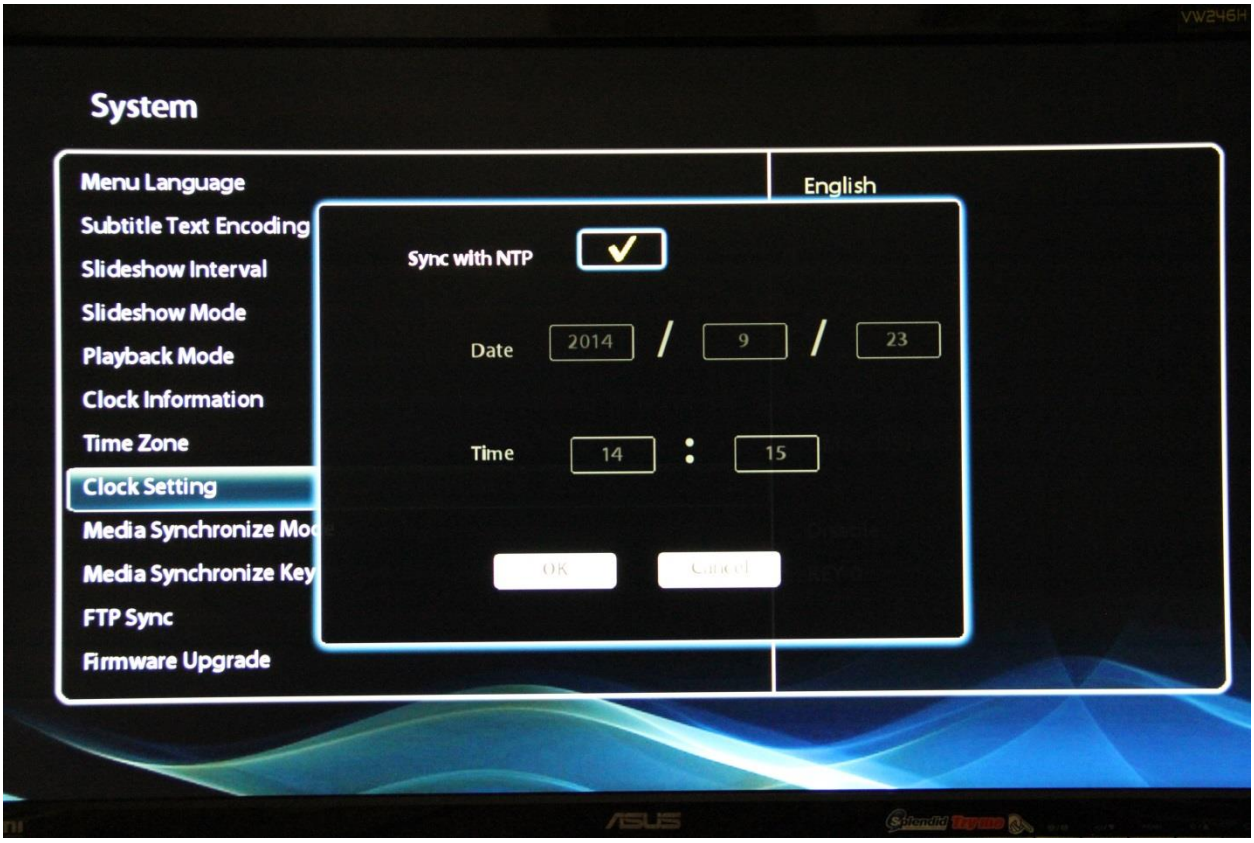
Select the local time zone



Setting the time zone will ensure that the clock will have the correct time if you have the DV-81 connected to a network, and select “Sync with NTP” time-server.

Clock Setting

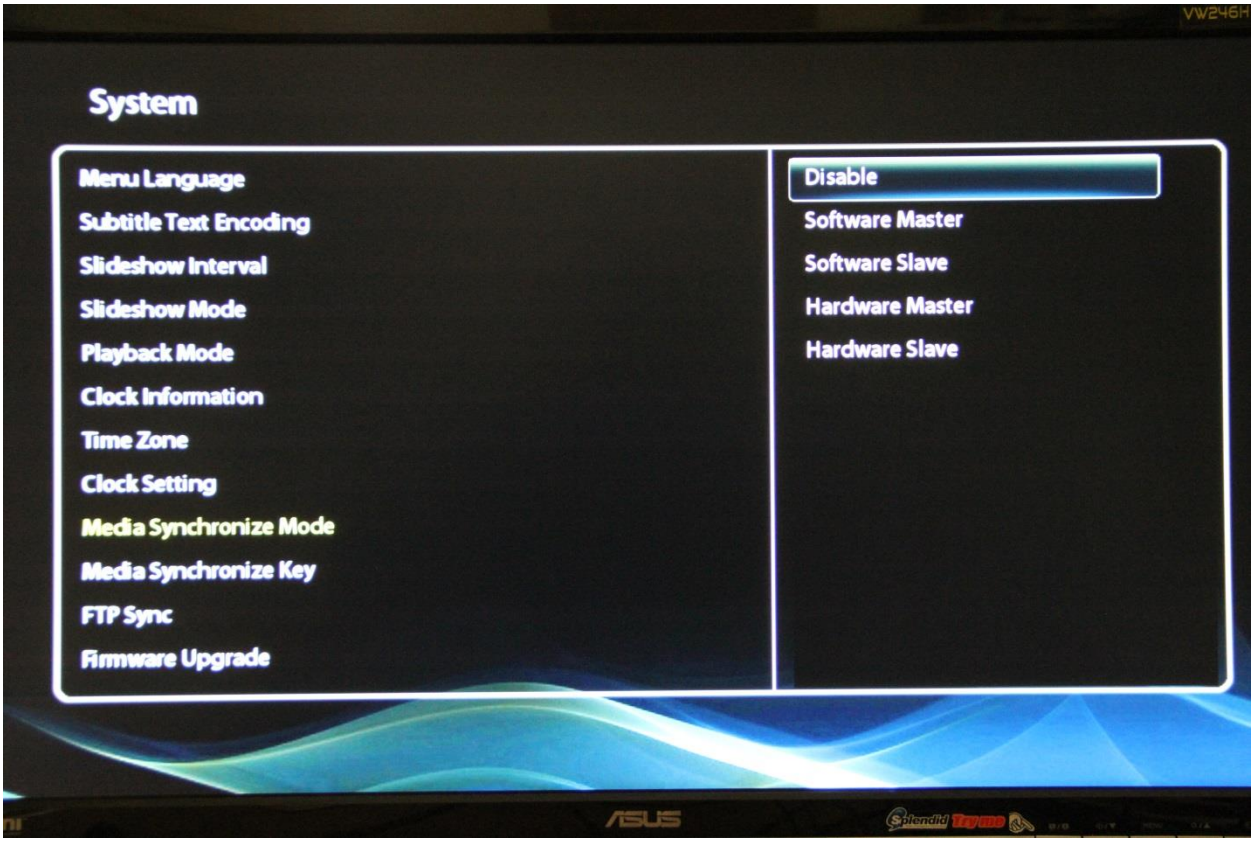
Set the clock if using time related functions



If you have the DV-81 connected to a network, and select “Sync with NTP” time-server, the clock will set automatically to the correct time. Otherwise you can enter the time and date manually if the box is not checked.

Media Synchronize Mode

Settings to synchronize players

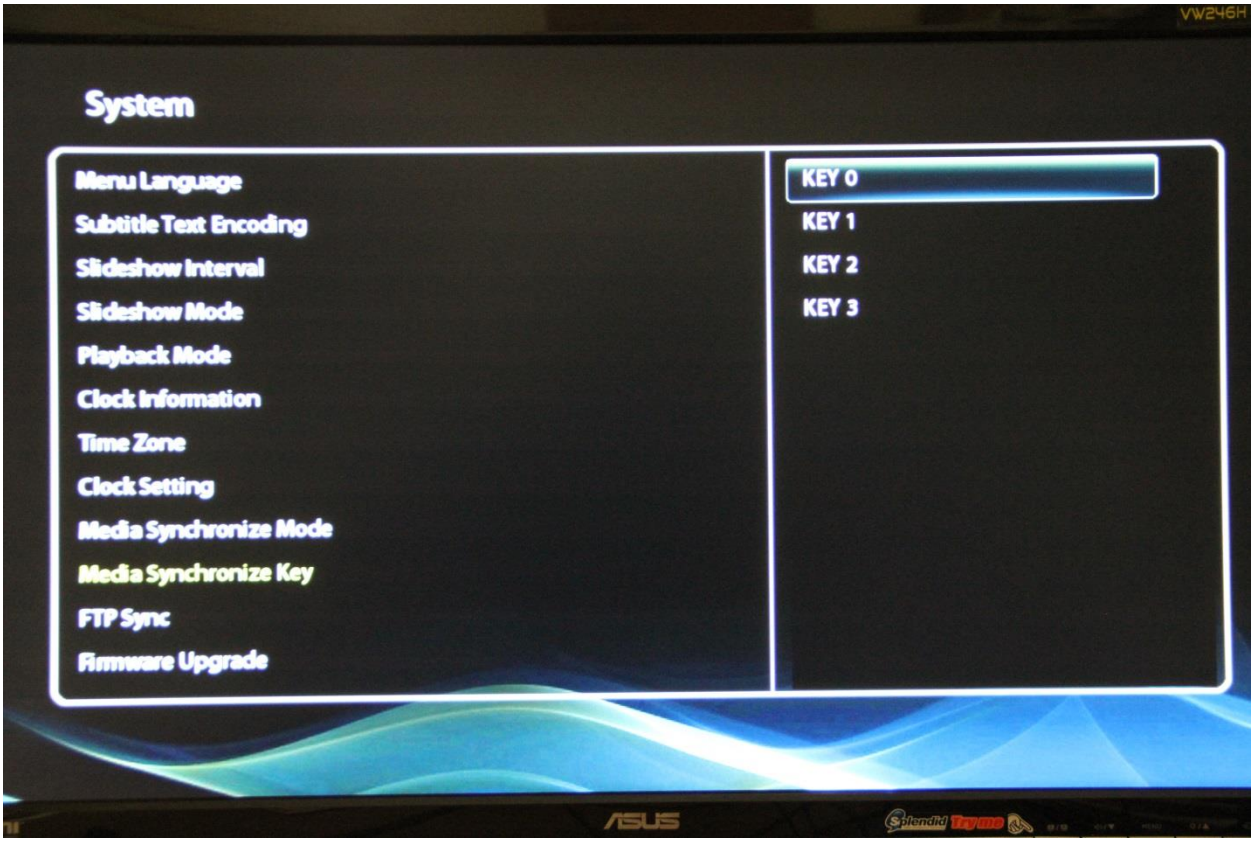


The Media Synchronize Mode can be used with multiple DV-81 players on a local network. The players should be in the Repeat Mode. At the end of the last file on the Master Player, the Master will transmit a queue to all of the Slave Players to start the first file. The players are not Gen-Locked and can drift a few frames. The longer the total run time of the combined files, the more obvious the separation will be. The drift is dependent on each DV-81's internal crystal oscillator. Choosing and matching players from a larger quantity can reduce the drift.

Please use the Software Master and Software Slave as they will communicate over the network. The Hardware Master and Hardware Slave use low power radio communications and may be suitable when the players are in very close proximity to each other.

Media Synchronize Key

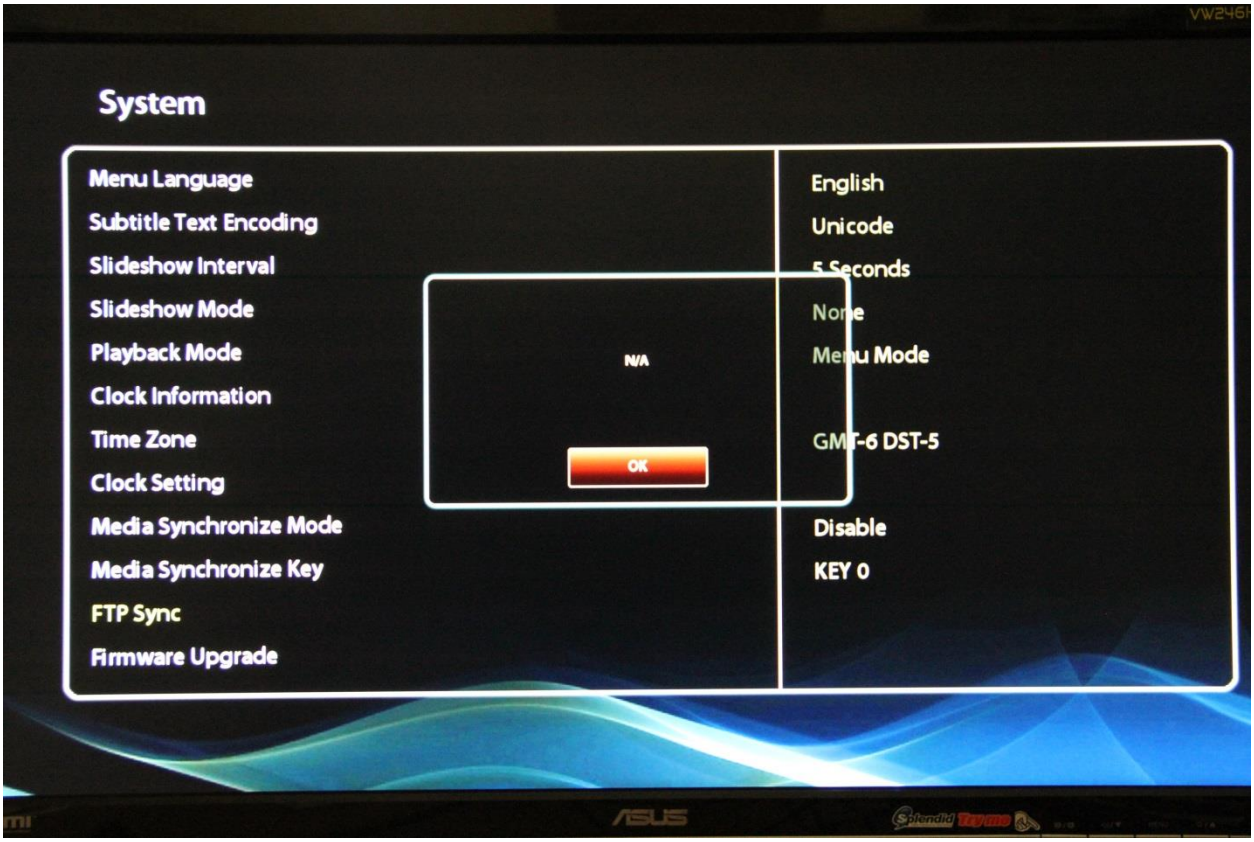
Settings to place players in a Master / Slave group



Set the Master and the Slaves to the same Key to group them together. You can have four separate groups using the four keys. The total number of players in one or more groups combined, is limited by the IP address server on your network to 255 total devices.

FTP Sync

Settings to synchronize to your FTP server computer on your LAN

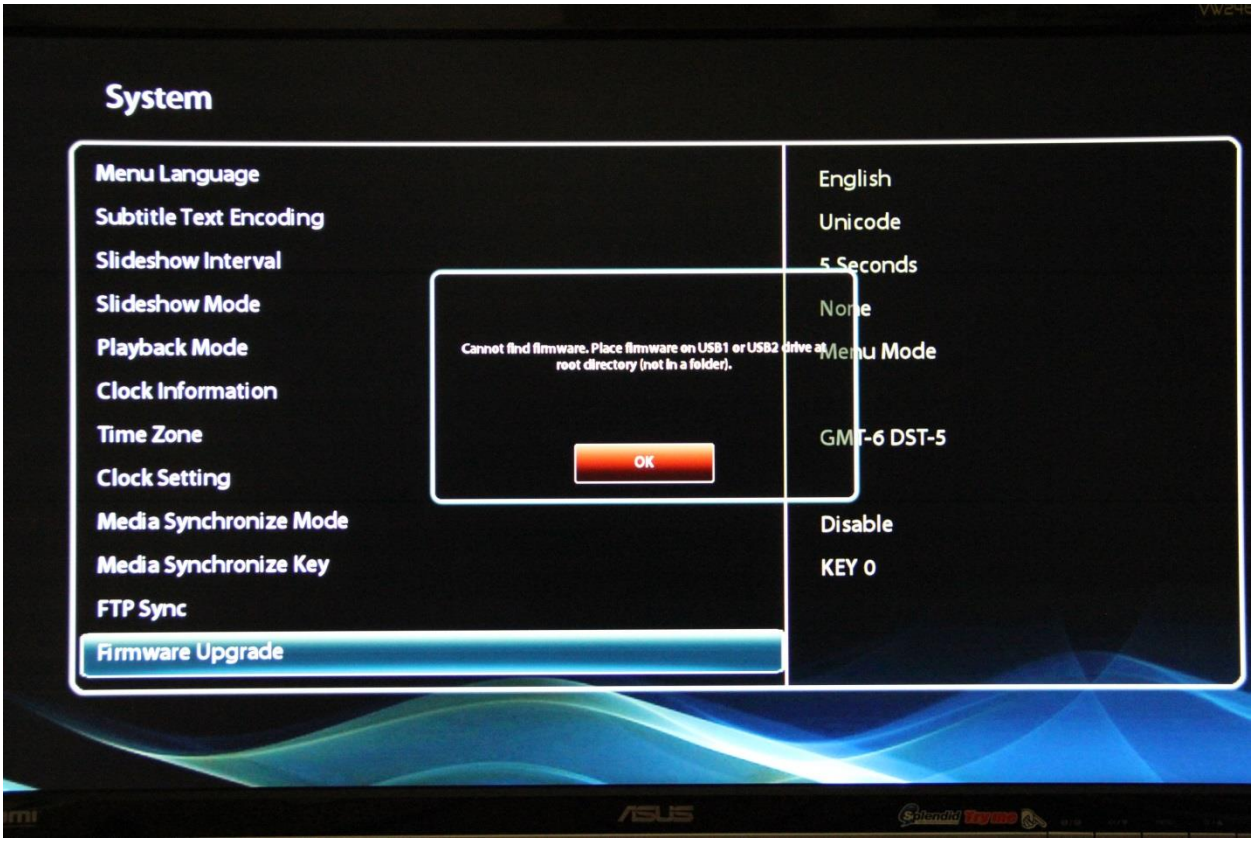


Enter the FTP server connection settings.

The DV-81 can update files on the SD memory card at the scheduled Power-Off time using a LAN local network connection and the U-Poster 1.1 software on a Windows PC. The free software can be downloaded at http://www.teamkingsley.com/downloads.html

Firmware Upgrade

How to upgrade the firmware



We may release upgraded firmware in the future. Please check http://www.teamkingsley.com/downloads.html for updates.

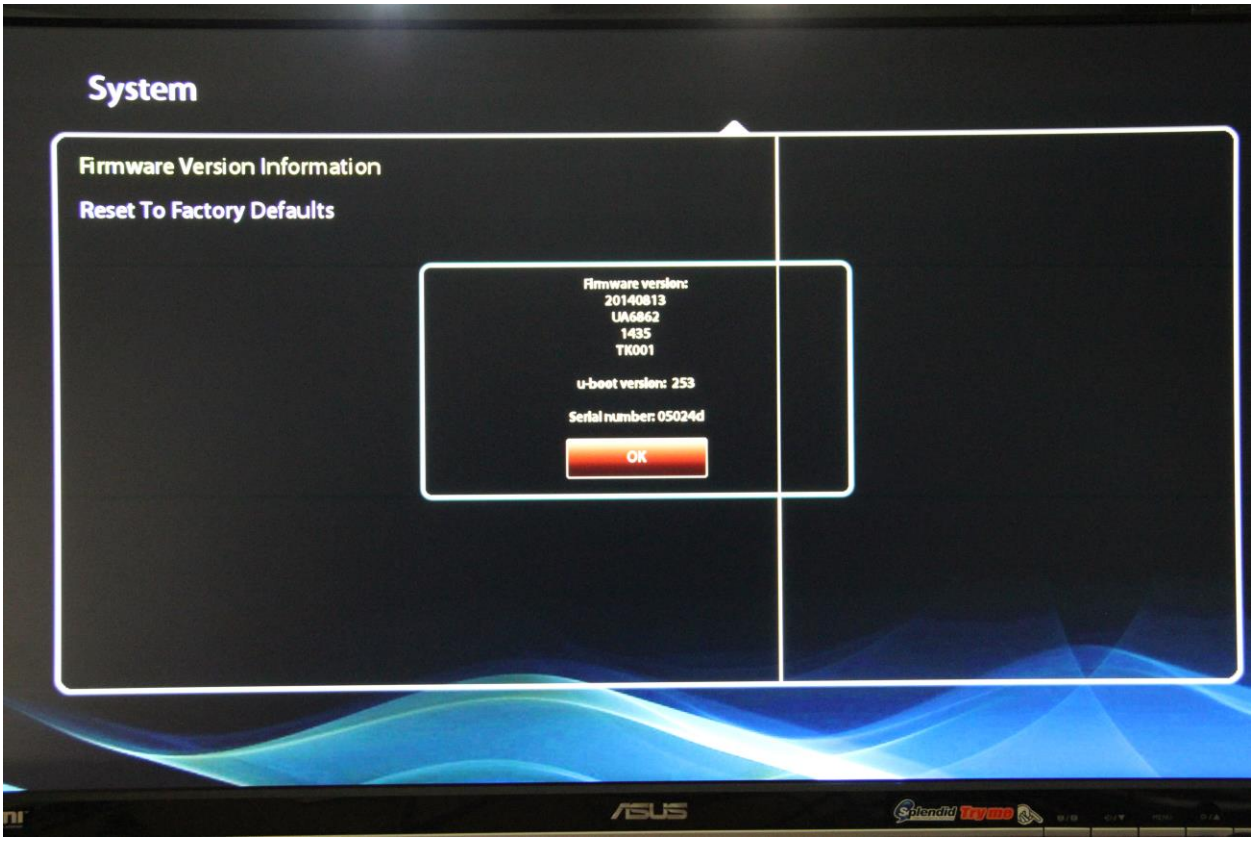
Insert a USB thumb drive in your PC. Open “My Computer” in Windows and right-click the drive. Rename the drive to UA6860 and delete any existing files so that the drive is empty. Copy the new .fw and .md5 files to the drive.

Insert the USB drive into the DV-81 and follow the on-screen instructions.

Do not remove power or remove the USB drive until the update is competed. Interrupting the process may result in a non-functional player. It is highly recommended to use a UPS battery-backup power supply.

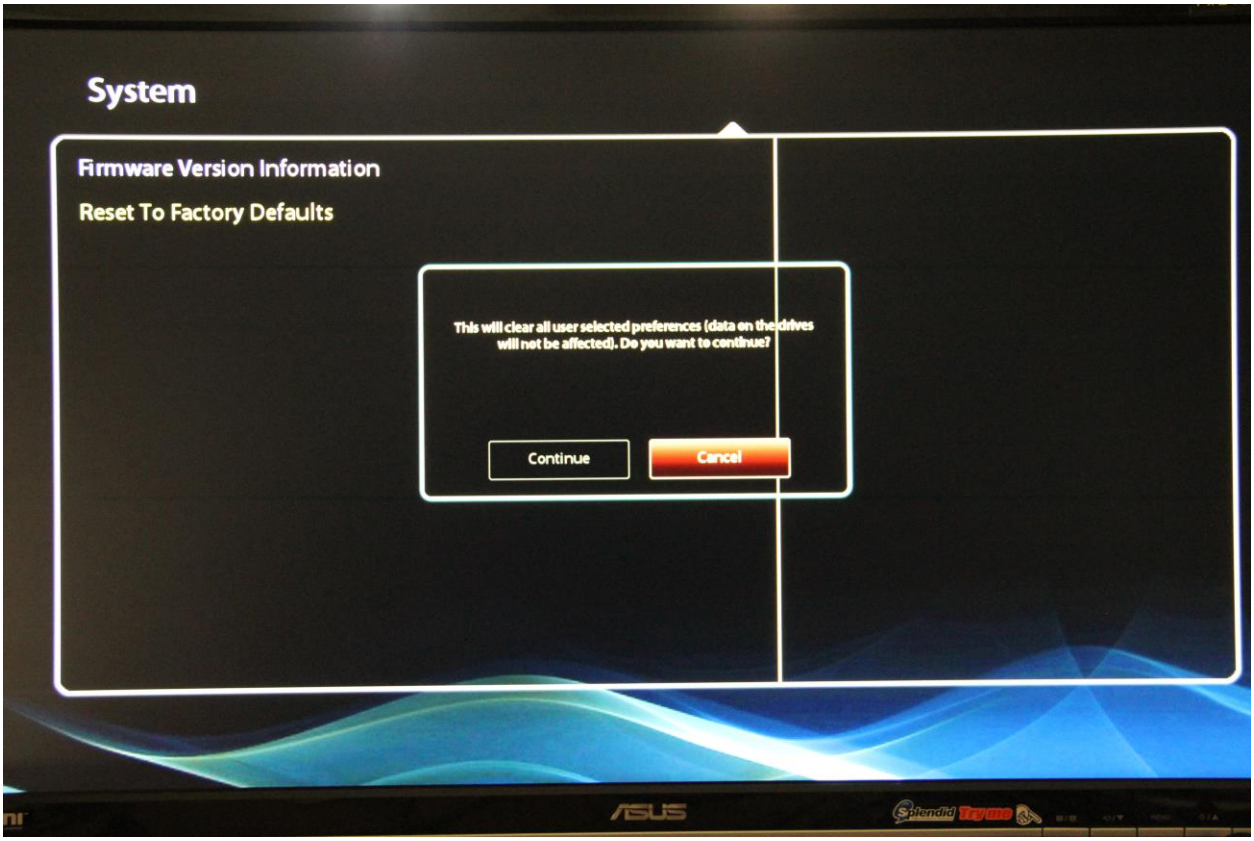
Firmware Version Information

Shows the current firmware installed



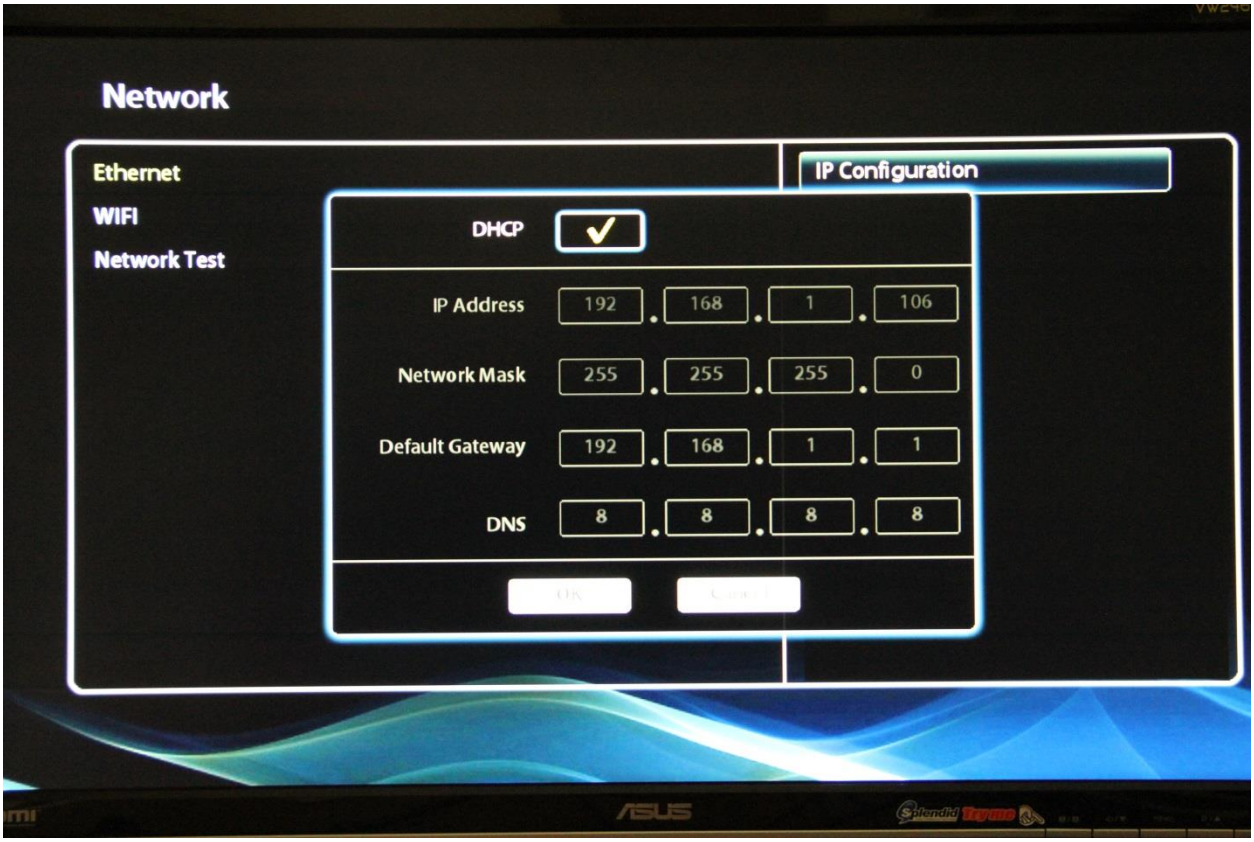
Reset To Factory Defaults

Will rest the player to the way it was before any changes were made.


System
Firmware Version Information
Reset To Factory Defaults
This will clear all user selected preferences (data on the drives will not be affected). Do you want to continue?
Continue
Cancel

Network Menu Page

Set the network connection



Check the DHCP box to obtain an IP address automatically, or leave un-checked to manually enter the settings.

The WIFI can only be used with an external USB WIFI dongle, not included. The Ralink RT3070 is recommended.

Click the Network Test to begin testing the connection with the settings you have entered.

Sound Menu Page

Adjust sound settings

Volume: Set the volume to better match your amplifier if needed.

Night Mode: Volume will decrease at night if selected.

Digital Output: Select output type. The Optical outputs are an option that may not be installed.

Display Menu Page

Aspect Ratio

Set the Aspect Ratio to best match your file to the monitor

Brightness

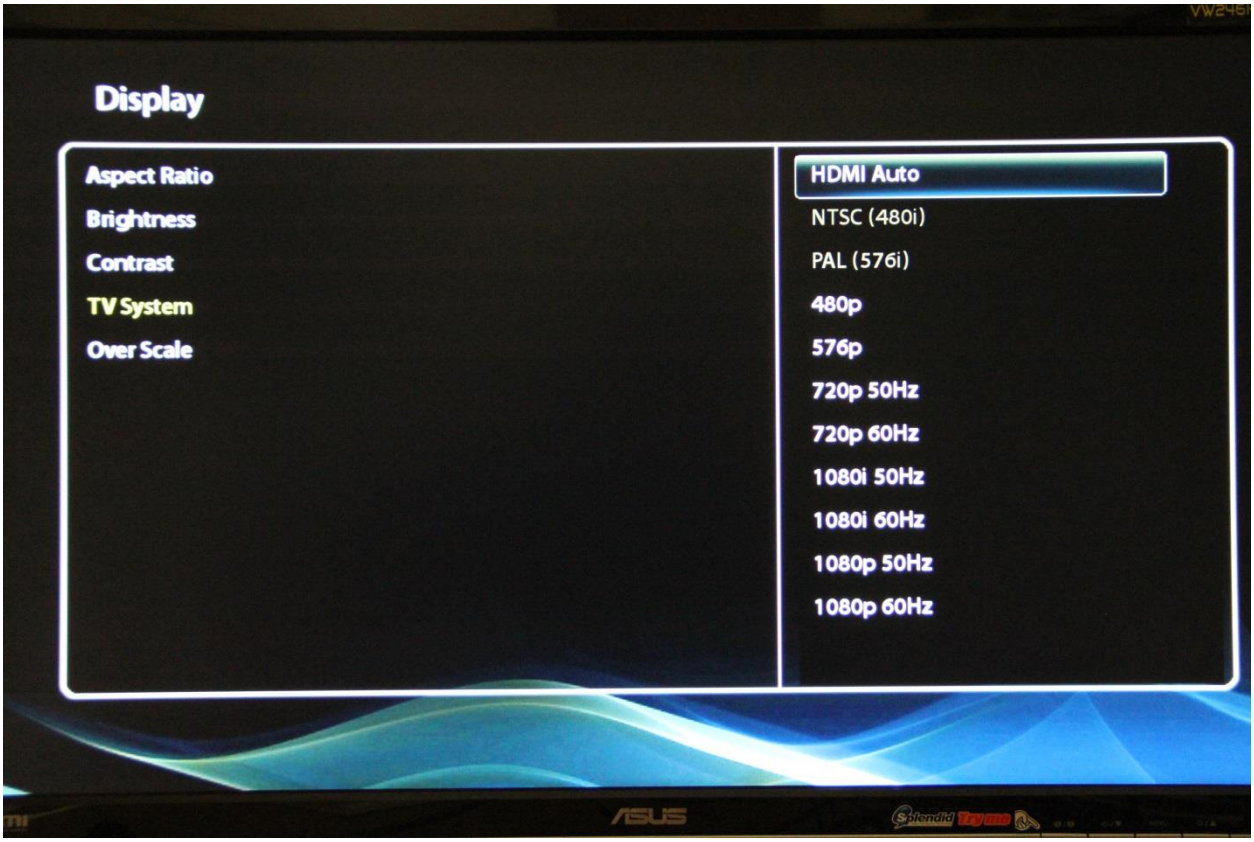
Adjust Brightness if needed

Contrast

Adjust Contrast if needed

TV System

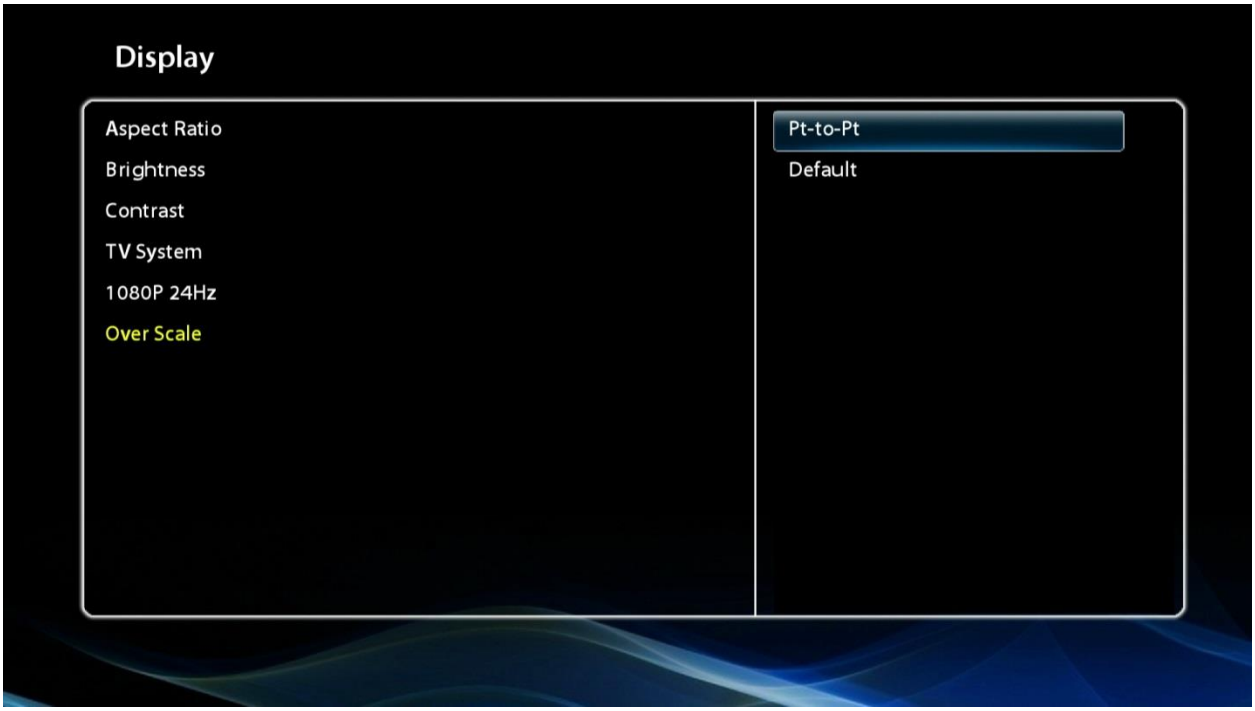
Set the video output to best match your monitor



The VGA output is always set to 1920 x 1080.

Over Scale

Set the Over Scale to best match your file to the monitor



Remote Control

Supported Video Formats

Supported Video Formats														
Video Codec	M-JPEG		MPEG-1/2		MPEG-4		Flash Video		H.264		VC-1		Real Video	
File Extension	.MOV / .AVI		.MPG / .DAT / .VOB / .TS		.AVI / .MP4 / .3GP / .MKV / .ASF / .WMV		.FLV		.AVI /.MP4 / .MOV / .MPG / .MKV / .TS / .MTS / .M2TS / .FLV		.ASF / .WMV / .TS / .M2TS / .MKV / .AVI		.RM / .RMVB / .MKV	
Format Combination	Container	Video	Container	Video	Container	Video	Container	Video	Container	Video	Container	Video	Container	Video
	MOV	jpeg	MPEG PS	MPEG-1	AVI	XVID	FLV	FLV1	MP4	avc1	ASF	WMV3	RM	RV30
	AVI	MJPG	MPEG PS	MPEG-2	AVI	DX50	FLV	FLV4	MPEG TS	H264	ASF	WVC1	RM	RV40
			MPEG TS	MPEG-2	AVI	DIVX			MTS	H264	MPEG TS	WMV3	MKV	RV40
					AVI	DIV3			M2TS	H264	MPEG TS	WVC1		
					MKV	XVID			MKV	avc1	AVI	WMV3		
					MKV	DIV3			AVI	H264	AVI	WVC1		
					MKV	DX50			FLV	H.264	MKV	WMV3		
					MP4/3GP	mp4v					MKV	WVC1		
					MP4/3GP	s263								
					ASF	DIVX								
					ASF	DIV3								
					ASF/AVI	MP43								
					ASF/AVI	MP4S								
					AVI	FMP4								

Serial Ports

The DV-81 has 2 serial ports, an RJ11 and a DB9M.

We use the RJ 9 port to connect the DV-68K, TK-69K or other control device.

The RJ 9 port has 4 pins, Ground, Tx, Rx and +5vdc.

The RJ 9 port Rx and Tx communications is at 5 volt TTL levels, 4800, 8N1. If you want to use a PC or AMX or other true rs232 control at 12 volts, you will need a level converter cable, available separately.

The DB9M port is for custom control of other devices such as a LED scrolling message sign.

We can develop custom firmware for larger quantity orders or for a development fee. Please email sales@TeamKingsley.com for a quote.

Please let us know of any problems or suggestions you have for this manual.